

SWAYAM YADAV

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, India

Bachelor of Technology in Computer Science Engineering

October 2021 – Present

CGPA: 6.79/10.0

St. Joseph College, Bhalwari, Nepal

Senior Secondary School (12th)

October 2018 – April 2020

Percentage: 75%

Projects

Smart Door Lock - Face Recognition System (*Basic*)

[GitHub](#)

- Designed and developed a basic smart door lock system using facial recognition technology.
- Utilized Python, OpenCV, and NumPy for processing facial data, achieving a recognition accuracy of approximately 95%.
- Focused on improving the security of the lock system through facial recognition, enhancing the overall effectiveness of the system.

ASL Sign Language Detection System (*Intermediate*)

[GitHub](#)

- Developed an ASL Sign Language Detection System using Python and Random Forest Classifier, achieving 97% accuracy in gesture recognition through iterative model training and validation.
- Integrated OpenCV, MediaPipe, Pillow, and NumPy for video processing and data manipulation, enhancing system performance.
- Utilized Pickle and Tkinter for data storage and user interface design, facilitating ease of use and interaction.

House Price Prediction Regression Project (*Intermediate*)

[Github](#)

- Developed a machine learning model to predict house prices based on various features like location, size, and amenities, using Python and scikit-learn, achieving high accuracy in price predictions..
- Preprocessed the dataset by handling missing values, scaling features, and encoding categorical variables, resulting in improved data quality and model performance.
- Trained multiple regression models, including Linear Regression, Random Forest, and Gradient Boosting, and optimized them through cross-validation and hyperparameter tuning.
- Implemented visualizations using matplotlib and seaborn to conduct exploratory data analysis (EDA) and identify significant trends and patterns in the data.

Technical Skills

High Proficiency: Python

Moderate Proficiency: Data Analysis, Data Visualization, Matplotlib, Seaborn, Jupyter Notebooks, SIEM Tools, Threat Management, Incident Response, Security Frameworks and Control, C, C++, Linux Command Line, Kali Linux, GitHub, Excel, Adobe Premiere Pro

Foundational Knowledge: OSINT Tools, Reconnaissance Tools, SQL

Academic Background: DSA, Object Oriented Programming, DBMS, Software Engineering, Compiler Design, Cryptography, Cloud Computing, Web Technology

Certifications

Python for Everybody Specialization (Coursera Certificate)

Jan 2024 - Mar 2024

Google Cybersecurity Professional Certificate (Coursera Certificate)

May 2024 - July 2024

Google IT Automation with Python Professional Certificate (Coursera Certificate)

May 2024 - Present

Ethical Hacker (Cisco Networking Academy)

May 2024 - Present

Extra-Curricular Activities

Active Member of Obstruction Dance Crew, Nepal

2018 – Present

contributing to choreography and performance planning.

Lead Member of KORUS Individual Dance Crew, KIIT University

2022 – Present

leading performances and coordinating team activities.

Founding Member of Binary Boppers Dance Crew, KIIT University

2022

responsible for establishing the group, instructing dance and organizing events.